

Application No. 10/799,129
Response to Office Action of April 4, 2006

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

CLAIMS

What is claimed is:

1. (Currently Amended) An inventory transport device having a fixed section and a movable section comprising:
 - a RFID reader device mounted on the movable section, the RFID reader device comprising a power antenna and a power storage unit coupled to the power antenna; and
 - a RFID power device mounted on the fixed section, the RFID power device comprising a signal generator and an antenna, the antenna configured to receive a signal from the signal generator and transmit an output signal, the output signal configured to induce a voltage in the power antenna to produce energy for storage in the power storage unit, and operable to provide providing the RFID reader device power without physical contact between the RFID reader device and the RFID power device.
2. (Original) The device of claim 1 further comprising a user terminal mounted in the fixed section, the user terminal configured to accept user input to control the RFID reader device and the movable section.
3. (Original) The device of claim 2 wherein the user terminal and the RFID reader communicate wirelessly.
4. (Original) The device of claim 3 wherein the user terminal and the RFID reader device communicate wirelessly using a wireless local area network protocol.
5. (Original) The device of claim 3 wherein the user terminal and the RFID reader device communicate using a short range wireless protocol.

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6. (Original) The device of claim 1 further comprising one or more RFID antennas mounted on the moveable section.
7. (Original) The device of claim 6 wherein at least one of the one or more RFID antennas is mounted on a fork of the moveable section
8. (Currently Amended) The device of claim 6 wherein the one or more RFID antennas are inside a hermetically sealed container with the RFID reader ~~transceivers~~.
9. (Currently Amended) The device of claim 8 wherein the hermetically sealed container ~~box~~ is mounted on a fork of the moveable section.
10. (Original) The device of claim 6 wherein the one or more RFID antennas are coupled to an antenna switch configured to select which of the one or more RFID antennas to use.
11. (Original) The device of claim 1 wherein the inventory transport device is a forklift.
12. (Original) The device of claim 1 wherein the RFID power device provides power via inductive power transfer.
13. (Original) The device of claim 12 wherein the RFID power device further comprises an internal power supply.
14. (Original) The device of claim 12 wherein the RFID power device is coupled to an external power supply.
15. (Original) The device of claim 14 wherein the external power supply is a battery located in the inventory transfer device.

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16. (Currently Amended) A RFID reader for use in an inventory transport device comprising:
 - a RFID transceiver configured to broadcast interrogations and receive replies; ~~and~~
 - a power antenna configured to receive a power signal from a RFID power device, the power signal inducing a voltage in the power antenna; and
 - a power source coupled to the power antenna and coupled to the RFID transceiver, the power source configured to store energy received from the voltage induced in the power antenna ~~a contactless power source.~~
17. (Original) The RFID reader of claim 16 wherein the inventory device comprises a moveable section and a fixed section, the RFID transceiver mounted on the moveable section.
18. (Currently Amended) The RFID reader of claim 17~~16~~ further comprising one or more RFID antennas mounted on the moveable section.
19. (Currently Amended) The RFID reader of claim 18 ~~16~~ wherein at least one of the one or more RFID antennas is mounted on a fork of the moveable section
20. (Currently Amended) The RFID reader of claim 18 ~~16~~ wherein the one or more RFID antennas are inside a hermetically sealed container with the RFID transceiver.
21. (Currently Amended) The RFID reader of claim 20 wherein the hermetically sealed container ~~box~~ is mounted on a fork of the moveable section.
22. (Currently Amended) The RFID reader of claim 18 ~~16~~ wherein the one or more RFID antennas are coupled to an antenna switch configured to select which of the one or more RFID antennas to use.
23. (Original) The RFID reader of claim 16 wherein the inventory transport device is a forklift.

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24. (Currently Amended) The RFID reader of claim 16 wherein the power signal from the RFID power device induces a voltage in the power antenna via mutual inductance ~~provides power via inductive power transfer.~~

25. (Original) The RFID reader of claim 24 wherein the RFID power device further comprises an internal power supply.

26. (Original) The RFID reader of claim 24 wherein the RFID power device is coupled to an external power supply.

27. (Currently Amendment) The RFID reader of claim 26 wherein the external power supply is a battery located in the inventory ~~transfer~~ transport device.